

PF-0057-4 CON

<110> Au-Young, Janice; Cocks, Benjamin G.
Coleman, Roger; Seilhamer, Jeffrey J.
Fisher, Douglas A.

<120> CYCLIC NUCLEOTIDE PHOSPHODIESTERASES

<130> PF-0057-4 CON

<140> To Be Assigned

<141> Herewith

<150> US 09/454,060

<151> 1999-12-02

<150> US 08/974,565

<151> 1997-11-19

<160> 18

<170> PERL Program

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<211> 449

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 156196

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Glu	Leu	Tyr	Ser	Pro	Gln	Phe	Gly	Ala	Lys	Asp	Asp	Asp	Pro	His
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Ala	Asn	Asp	Leu	Val	Gly	Gly	Leu	Met	Ser	Asp	Gly	Leu	Arg	Arg
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Leu	Ser	Gly	Asn	Glu	Tyr	Val	Leu	Ser	Thr	Lys	Asn	Thr	Gln	Met
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Val	Ser	Ser	Asn	Ile	Ile	Thr	Pro	Ile	Ser	Leu	Asp	Asp	Val	Pro
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Pro	Arg	Ile	Ala	Arg	Ala	Met	Glu	Asn	Glu	Glu	Tyr	Trp	Asp	Phe
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Asp	Ile	Phe	Glu	Leu	Glu	Val	Ala	Thr	His	Asn	Arg	Pro	Leu	Ile
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Tyr	Leu	Gly	Leu	Lys	Met	Phe	Ala	Arg	Phe	Gly	Ile	Cys	Glu	Phe
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Leu	His	Cys	Ser	Glu	Ser	Thr	Leu	Arg	Ser	Trp	Leu	Gln	Ile	Ile
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Glu	Ala	Asn	Tyr	His	Ser	Ser	Asn	Pro	Tyr	His	Asn	Ser	Thr	His
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Ser	Ala	Asp	Val	Leu	His	Ala	Thr	Ala	Tyr	Phe	Leu	Ser	Lys	Glu
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Arg	Ile	Lys	Glu	Thr	Leu	Asp	Pro	Ile	Asp	Glu	Val	Ala	Ala	Leu
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Asp	Thr	Ala	Val	Leu	Glu	Ser	His	His	Ala	Ala	Leu	Ala	Phe	Gln	
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Leu	Thr	Thr	Gly	Asp	Asp	Lys	Cys	Asn	Ile	Phe	Lys	Asn	Met	Glu	
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Arg	Asn	Asp	Tyr	Arg	Thr	Leu	Arg	Gln	Gly	Ile	Ile	Asp	Met	Val	
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Leu	Ala	Thr	Glu	Met	Thr	Arg	His	Phe	Glu	His	Val	Asn	Lys	Phe	
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Val	Asn	Ser	Ile	Asn	Lys	Pro	Leu	Ala	Thr	Leu	Glu	Glu	Asn	Gly	
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Glu	Thr	Asp	Lys	Asn	Gln	Glu	Val	Ile	Asn	Thr	Met	Leu	Arg	Thr	
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Pro	Glu	Asn	Arg	Thr	Leu	Ile	Lys	Arg	Met	Leu	Ile	Lys	Cys	Ala	
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Asp	Val	Ser	Asn	Pro	Cys	Arg	Pro	Leu	Gln	Tyr	Cys	Ile	Glu	Trp	
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Ala	Ala	Arg	Ile	Ser	Glu	Glu	Tyr	Phe	Ser	Gln	Thr	Asp	Glu	Glu	
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Lys	Gln	Gln	Gly	Leu	Pro	Val	Val	Met	Pro	Val	Phe	Asp	Arg	Asn	
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Thr	Cys	Ser	Ile	Pro	Lys	Ser	Gln	Ile	Ser	Phe	Ile	Asp	Tyr	Phe	
				395					400						405
Ile	Thr	Asp	Met	Phe	Asp	Ala	Trp	Asp	Ala	Phe	Val	Asp	Leu	Pro	
				410					415						420
Asp	Leu	Met	Gln	His	Leu	Asp	Asn	Asn	Phe	Lys	Tyr	Trp	Lys	Gly	
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 <223> Incyte ID No: 156196

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 aggaaaaatt agacactatg tgtccattat cagagtgtgc aatggcaaca ataaggctga 180
 gaaaatatcc gaatgtgttc agtctgacac tcatcacagat aatcagacag gcaaacataa 240
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 cagccagaga cgacactctt ccatggcccc gatacattcc atgacaattg aggcgccccat 360
 caccaaggta atcaatatta tcaatgctgc ccaggaaaagt agtcccatgc ctgtgacaga 420
 agccctagac cgtgtgctgg aaattctaag aaccactgag ttatattcac cacagtttgg 480
 tgctaaagat gatgatcccc atgccaatga ccttgttggg ggcttaatgt ctgatggttt 540
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 caatataatc actcccatct cccttgatga tgtcccacca cggatagctc gggccatgga 660
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caccattcat gatgtggatc accctgggag aaccaactcc ttcctgtgta atgctggaag 1020
tgagctggcc attttgtaca atgacactgc tgtgctggag agccaccatg cggccttggc 1080
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catcccaaaa tcccaaattc ctttcattga ttacttcatc acagacatgt ttgatgcttg 1560
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tcaacactta agaacggcta atggcaatag gatctttaac aactttttca catcanagna 2100
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Lys Xaa Met Met Ile Lys Cys Ala Xaa Xaa Xaa Asn Pro Cys Arg
35 40 45
Pro Leu Asp Leu Cys Ile Glu Trp Ala Gly Arg Ile Ser Glu Glu
50 55 60
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Val Met Xaa Val Phe Asp
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PF-0057-4 CON

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ggncaaccca tgccgaccct tggacctgtg cattgaatgg gctgggagga tctctgagga 180
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<223> Incyte ID No: 156196

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          20          25          30
Ile Arg Ser Ser Lys Leu Ser Glu Asn Thr Val Ile Val Gly Val
          35          40          45
Val Arg Arg Val Asp Arg Glu Glu Leu Ser Val Met Pro Phe Ile
          50          55          60
Ser Ala Gly Phe Thr Arg Arg Tyr Val Glu Asn Pro Asn Ile Met
          65          70          75
Ala Cys Tyr Asn Glu Leu Leu Gln Leu Glu Phe Gly Glu Val Arg
          80          85          90
Ser Gln Leu Lys Leu Arg Ala Cys Asn Ser Val Phe Thr Ala Leu
          95          100          105
Glu Asn Ser Glu Asp Ala Ile Glu Ile Thr Ser Glu Asp Arg Phe
          110          115          120
Ile Gln Tyr Ala Asn Pro Ala Phe Glu Thr Thr Met Gly Tyr Gln
          125          130          135
Ser Gly Glu Leu Ile Gly Lys Glu Leu Gly Glu Val Pro Ile Asn
          140          145          150
Glu Lys Lys Ala Asp Leu Leu Asp Thr Ile Asn Ser Cys Ile Arg
          155          160          165
Ile Gly Lys Glu Trp Gln Gly Ile Tyr Tyr Ala Lys Lys Lys Asn
          170          175          180
Gly Asp Asn Ile Gln Gln Asn Val Lys Ile Ile Pro Val Ile Gly
          185          190          195
Gln Gly Gly Lys Ile Arg His Tyr Val Ser Ile Ile Arg Val Cys
          200          205          210
Asn Gly Asn Asn Lys Ala Glu Lys Ile Ser Glu Cys Val Gln Ser
          215          220          225
Asp Thr Arg Thr Asp Asn Gln Thr Gly Lys His Lys Asp Arg Arg
          230          235          240
Lys Gly Ser Leu Asp Val Lys Ala Val Ala Ser Arg Ala Thr Glu
          245          250          255
Val Ser Ser Gln Arg Arg His Ser Ser Met Ala Arg Ile His Ser
          260          265          270
Met Thr Ile Glu Ala Pro Ile Thr Lys Val Ile Asn Val Ile Asn
          275          280          285
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Phe	Gly	Ala	Lys	Asp	Asp	Asp	Pro	His	Ala	Asn	Asp	Leu	Val	Gly	320	325	330
Gly	Leu	Met	Ser	Asp	Gly	Leu	Arg	Arg	Leu	Ser	Gly	Asn	Glu	Tyr	335	340	345
Val	Leu	Ser	Thr	Lys	Asn	Thr	Gln	Met	Val	Ser	Ser	Asn	Ile	Ile	350	355	360
Thr	Pro	Ile	Ser	Leu	Asp	Asp	Val	Pro	Pro	Arg	Ile	Ala	Arg	Ala	365	370	375
Met	Glu	Asn	Glu	Glu	Tyr	Trp	Asp	Phe	Asp	Ile	Phe	Glu	Leu	Glu	380	385	390
Ala	Ala	Thr	His	Asn	Arg	Pro	Leu	Ile	Tyr	Leu	Gly	Leu	Lys	Met	395	400	405
Phe	Ala	Arg	Phe	Gly	Ile	Cys	Glu	Phe	Leu	His	Cys	Ser	Glu	Ser	410	415	420
Thr	Leu	Arg	Ser	Trp	Leu	Gln	Ile	Ile	Glu	Ala	Asn	Tyr	His	Ser	425	430	435
Ser	Asn	Pro	Tyr	His	Asn	Ser	Thr	His	Ser	Ala	Asp	Val	Leu	His	440	445	450
Ala	Thr	Ala	Tyr	Phe	Leu	Ser	Lys	Glu	Arg	Ile	Lys	Glu	Thr	Leu	455	460	465
Asp	Pro	Ile	Asp	Glu	Val	Ala	Ala	Leu	Ile	Ala	Ala	Thr	Ile	His	470	475	480
Asp	Val	Asp	His	Pro	Gly	Arg	Thr	Asn	Ser	Phe	Leu	Cys	Asn	Ala	485	490	495
Gly	Ser	Glu	Leu	Ala	Ile	Leu	Tyr	Asn	Asp	Thr	Ala	Val	Leu	Glu	500	505	510
Ser	His	His	Ala	Ala	Leu	Ala	Phe	Gln	Leu	Thr	Thr	Gly	Asp	Asp	515	520	525
Lys	Cys	Asn	Ile	Phe	Lys	Asn	Met	Glu	Arg	Asn	Asp	Tyr	Arg	Thr	530	535	540
Leu	Arg	Gln	Gly	Ile	Ile	Asp	Met	Val	Leu	Ala	Thr	Glu	Met	Thr	545	550	555
Lys	His	Phe	Glu	His	Val	Asn	Lys	Phe	Val	Asn	Ser	Ile	Asn	Lys	560	565	570
Pro	Leu	Ala	Thr	Leu	Glu	Glu	Asn	Gly	Glu	Thr	Asp	Lys	Asn	Gln	575	580	585
Glu	Val	Ile	Asn	Thr	Met	Leu	Arg	Thr	Pro	Glu	Asn	Arg	Thr	Leu	590	595	600
Ile	Lys	Arg	Met	Leu	Ile	Lys	Cys	Ala	Asp	Val	Ser	Asn	Pro	Cys	605	610	615
Arg	Pro	Leu	Gln	Tyr	Cys	Ile	Glu	Trp	Ala	Ala	Arg	Ile	Ser	Glu	620	625	630
Glu	Tyr	Phe	Ser	Gln	Thr	Asp	Glu	Glu	Lys	Gln	Gln	Gly	Leu	Pro	635	640	645
Val	Val	Met	Pro	Val	Phe	Asp	Arg	Asn	Thr	Cys	Ser	Ile	Pro	Lys	650	655	660
Ser	Gln	Ile	Ser	Phe	Ile	Asp	Tyr	Phe	Ile	Thr	Asp	Met	Phe	Asp	665	670	675
Ala	Trp	Asp	Ala	Phe	Val	Asp	Leu	Pro	Asp	Leu	Met	Gln	His	Leu	680	685	690
Asp	Asn	Asn	Phe	Lys	Tyr	Trp	Lys	Gly	Leu	Asp	Glu	Met	Lys	Leu	695	700	705
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<211> 3396

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<210> 7
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 <212> PRT
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<220>
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 <223> Incyte ID No: 464655

<400> 7

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				20					25					30
Ser	Ile	Arg	Ala	Thr	Asn	Pro	Ser	Glu	His	Thr	Val	Ile	Leu	Ala
				35					40					45
Val	Val	Ser	Arg	Val	Ser	Asp	Asp	His	Glu	Glu	Ala	Ser	Val	Leu
				50					55					60
Pro	Leu	Leu	His	Ala	Gly	Phe	Asn	Arg	Arg	Phe	Met	Glu	Asn	Ser
				65					70					75
Ser	Ile	Ile	Ala	Cys	Tyr	Asn	Glu	Leu	Ile	Gln	Ile	Glu	His	Gly
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Pro	Lys	Ser	Asp	Lys	Asn	Arg	Ala	Asp	Leu	Leu	Asp	Thr	Ile	Asn
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Pro	Ser	Val	Leu	Arg	Gln	Ser	Gln	Pro	Met	Ser	Gln	Ile	Thr	Gly
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Phe	Gln	Glu	Arg	Asp	Leu	Leu	Lys	Lys	Phe	His	Ile	Pro	Val	Asp
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Ala	Val	Asp	Trp	Ser	Lys	Val	Lys	Gly	Pro	Ser	Thr	Thr	Val	Val	
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Ala	Pro	Gln	Glu	Ser	Met	Glu	Ala	Val	Gly	Cys	Ser	Phe	Ser	Pro	
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Cys	Ser	Gly	Thr	Ser	Gly	Asp	Asn	Ser	Ala	Ile	Ile	Ser	Ala	Pro	
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